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(71)Applicant : TOYO METALLIZING CO LTD

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(72)Inventor : MOCHIZUKI KIYOTO
TOYAMA SHUNROKU
AOYANAGI TSUTOMU

(54) PLASTIC OPTICAL ARTICLE WITH MULTILAYERED ANTIREFLECTION FILM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a plastic film having a low reflectance in a wide visible light region and high electromagnetic wave shielding property and less liable to scratch and contamination.

SOLUTION: This plastic optical article has a scratch resistant hard coating layer of 1-15 μ m thickness and a four-layered antireflection film successively disposed on one face or both faces of the plastic film or sheet substrate. The antireflection film consists of a 1st layer based on ITO (In₂O₃-SnO₂ mixture), a 2nd layer based on SiO₂, a 3rd layer based on ITO and a 4th layer based on SiO₂ from the hard coating layer side. The reflectance of the surface of the antireflection film is $\leq 1\%$ in a visible light region of ≥ 200 nm wavelength.

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